Nobel Laureate Feels Mars May Support Life

Despite Mariner Photos

By WALTER SULLIVAN
One of the nation's leading scientists to believe that the most exciting aspect of the scientists believes there may be life on Mars, desp'ite the gloomy interpretation placed on the Mariner 4 pictures sent to earth last month.

Such a view has been expressed by Dr. Joshua Lederberg, professor of genetics at the Standford University School of Medicine. In 1983 Dr. Lederberg shared the Nobel Prize in medicine and physiology. He is an authority on the origin of lite. He believes have been backed by Dr. Carl Sagan of Harvard University and the Smithousian lands also carried out extensive mark and coasins for an extended per University and the Smithousian lands also carried out extensive hand as also carried out extensive hand account of in previous deliberations.

No New Factors Seen

Dr. Lederberg's views are set for hand or any then have been extended per the could have evolved within such waters. The evitable protons from within the crust of the planet less that it is thought that the could have evolved within such waters. The very have solidified previous expociations. They have not introduced new elements into the discussions that were not raise as the earth, and from the same maniner as the earth, and from the considerable quantum as the carth, and from the same maniner as the earth, and from the considerable quantum as the earth, and from the considerable quantum as the earth, and from the considerable quantum as the earth, and from the considerable frozen well, as the proton of the planet less than the particular than the cart to the third the considerable frozen well, as the proton of the planet less than the carth, and from the particular than the cart to the third the cart than the cart the

that Mars would show extensive scars of meteorite impacts.

The reason, he said, is that the orbit of the planet lies close to the asteroid belt, which is cluttered with objects in orbit around the sun, ranging in size from minor planets to small chunks of rock. Dr. Sagan, in telephone interview, pointed out that the Mariner 4 pictures have confirmed Dr. Whipple's prediction.

Among the numerous craters shown in the photographs are some whose huge, dim outlines suggest they were produced by impacts of very large objects an extremely long time ago. This led the Mariner project

Springs on earth, forming warm pools where life could exist.

Whether Mars is lightly frost-ed or underlain with vast water reserves, he says in his letter, "we have the likelihood of scattered oases with local conditions far more congenial to life than the average for the planet."

It has been pointed out that a vehicle from another world, scanning ours from over the Pacific Ocean, would not see any evidence of continents. "After all," Dr. Lederberg writes, "too obtuse a view of the earth would have us all submerged in a thousand fathoms of salt water."

"Already," he continues, "the